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EXAMINER

COLLINS, SCOTT M

ART UNIT	PAPER NUMBER
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2145

DATE MAILED: 03/10/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 09/594,408	Applicant(s) ERICKSON ET AL.	
	Examiner Scott M. Collins	Art Unit 2145	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
 - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
 - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
 - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on 23 September 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Claims 1-20 examined.
2. It is hereby acknowledged that the following papers have been received and placed of record in the file: Amendment on 09/23/2004.

Claim Objections

3. In the last Detailed Action, Examiner stated: "Claim 4 is objected to because of the following informalities: claim 4 was designated "(Previously amended)" when it should actually have been "(Currently Amended)". Appropriate correction is required." In response, Applicant made this change while stating that the objection was "unfounded." Examiner expresses apologies for this misunderstanding. When amendments to claims are made, they are to be denoted "(Currently Amended)" at the time of the amendment; in subsequent responses, the claim should be denoted "(Previously Amended)" since they have been amended previously, but not currently. The objection in the last Detailed Action was not meant to incite a change, but only to point out Applicant's incorrect usage. Therefore, any future claim listings should denote claim 4 as being "(Previously Amended)".

Response to Arguments

4. Applicant's arguments filed 09/23/2004 have been fully considered but they are not persuasive. The Examiner believes he and Applicant are simply at a state of disagreement, but would like to address some of the fundamental issues.
5. One fundamental issue is applicant's term "generic gateway" in the independent claims. While applicant defines this term in the specification, the claims stand on their own merit and the specification is not read into the claims (with the exception of 'means plus function' type claims

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as applicant discusses). It would be highly advantageous for applicant to further qualify how a “generic gateway” differs from any standard gateway in the art since the term “generic gateway” is not common in the art. Further, on page 18, lines 15-16, applicant argues that “Applicants’ [generic gateway], on the other hand, accommodate[s] these differing formats through the use of a single generic gateway.” However, this feature (which appears to define the invention) is not found in the independent claim being discussed.

6. Additionally, applicant attempts to undermine the Examiner’s reference to MPEP 2144.04-VI-B, but the Examiner stands on both the rejection and the use of this MPEP reference.

Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

8. Claims 1-3, 6-8, and 11-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gebauer, U.S. Patent Number 6,370,588 B2 (herein Gebauer) in view of what would have been obvious to a person of ordinary skill in the art at the time the invention was made.

9. Referring to claim 1, Gebauer has taught a data processing system having a user terminal for entering a transaction request, wherein said transaction request has one of a plurality of protocols, responsively coupled via a publicly available digital communication network to an enterprise server for responding to said transaction request using an enterprise protocol which is not one of said plurality of protocols (Gebauer figure 4, requesting client 64, network 84, and enterprise server 86; and figures 5 and 6 show that the one protocol of a plurality of possible

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protocols is HTML.), the improvement comprising a generic gateway interposed between said user terminal and said enterprise server which responsively couples said user terminal to said enterprise server by converting said plurality of protocols to said enterprise protocol (Gebauer figures 3-6, 9, 12 all pertain to a generic gateway interposed between the user and the server.).

10. Gebauer does not expressly disclose a plurality of protocols (that is, formats or methods of accomplishing tasks) beyond HTML. MPEP 2144.04-VI-B acknowledges that the duplication of parts in a system would only have required ordinary skill in the art. Therefore, at the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use Gebauer's system to process not only HTML, but other protocols as well. One of ordinary skill in the art would have been motivated to do this in order to create a more efficient system that can be used to process multiple protocols instead of needing separate systems to process each protocol.

11. Referring to claim 2, Gebauer has taught the improvement further comprising a plurality of adapters interposed between said generic gateway and said user terminal which responsively couples said user terminal to said generic gateway wherein each one of said plurality of adapters corresponds to said one of said plurality of protocols (Gebauer figure 4 and column 8, lines 4-36 where the client's request is adapted to use each service 70 and 72. Also, Gebauer figure 8 and column 12, lines 20-42 show the user's request being adapted based on the type of service.).

12. Referring to claim 3, Gebauer has taught the improvement wherein said publicly available digital communication network further comprises the Internet (Gebauer figure 9 and column 8, lines 7-12).

13. Claims 6-8 do not recite limitations above the claimed invention set forth in claims 1-3 and are therefore rejected for the same reasons set forth in the rejection of claims 1-3 above.

14. Claims 11 and 16 do not recite limitations above the claimed invention set forth in the combination of claims 1 and 2 and are therefore rejected for the same reasons set forth in the rejection of claims 1 and 2 above.

15. Referring to claims 12 and 17, Gebauer has taught the method further comprising transferring said converted and processed service request from said generic gateway to an end service provider via a connector (Gebauer figure 4 and column 8, lines 4-36 where the clients request is adapted to use each service 70 and 72. Also, Gebauer figure 8 and column 12, lines 20-42 show the user's request being adapted based on the type of service. In both cases, once the request has been adapted (which is synonymous with the act of converting or processing) it is directed to the actual service provider via the connection between them.).

16. Claims 13 and 19 do not recite limitations above the claimed invention set forth in claim 3 and are therefore rejected for the same reasons set forth in the rejection of claim 3 above.

17. Referring to claim 14, Gebauer has taught the method wherein said one of said plurality of formats further comprises an active server page (Gebauer figure 4, elements 70 and 72).

18. Referring to claim 15, Gebauer has taught the method wherein said one of said plurality of formats further comprises a standard programming language (Gebauer column 8, lines 24-27).

19. Referring to claim 18, Gebauer has taught an apparatus wherein said one of said plurality of adapters corresponds to said one of said plurality of connectors (Gebauer figure 4 where each adapter corresponds to the connector whereby the adapter is connected to the client.).

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20. Claims 1-3, 6-8, 11-13, and 16-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ronen, U.S. Patent Number 5,845,267 (herein referred to as Ronen) in view of what would have been obvious to a person of ordinary skill in the art at the time the invention was made.

21. Referring to claim 1, Ronen has taught a data processing system having a user terminal for entering a transaction request, wherein said transaction request has one of a plurality of formats, responsively coupled via a publicly available digital communication network to an enterprise server for responding to said transaction request using an enterprise protocol which is not one of said plurality of protocols, the improvement comprising a generic gateway interposed between said user terminal and said enterprise server which responsively couples said user terminal to said enterprise server by converting said plurality of protocols to said enterprise protocol (Ronen figure 1 and column 5, line 43 – column 6, line 9 where transaction server 121 acts as a gateway between user terminal 101 and server 126.).

22. Ronen has not expressly disclosed a “generic gateway.” However, Ronen includes a transaction server that provides the functionality of a “generic gateway.” At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to utilize Ronen’s transaction server as a generic gateway to translate the protocols of various requests. One of ordinary skill in the art would have been motivated to do this because Ronen’s transaction server handled all requests to and from the billing platform and if any of the requests utilized differing formats, the transaction server would have been the most efficient location to perform the translation.

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23. Referring to claim 2, Ronen has taught the improvement further comprising a plurality of adapters interposed between said generic gateway and said user terminal which responsively couples said user terminal to said generic gateway wherein each one of said plurality of adapters corresponds to said one of said plurality of protocols (Ronen figure 1 and column 5, line 43 – column 6, line 9 where the adapters are that which adapt the request to be processed by the server.).

24. Referring to claim 3, Ronen has taught the improvement wherein said publicly available digital communication network further comprises the internet (Ronen figure 1 element 104).

25. Claims 6-8 do not recite limitations above the claimed invention set forth in claims 1-3 and are therefore rejected for the same reasons set forth in the rejection of claims 1-3 above.

26. Claims 11 and 16 do not recite limitations above the claimed invention set forth in the combination of claims 1 and 2 and are therefore rejected for the same reasons set forth in the rejection of claims 1 and 2 above.

27. Referring to claims 12 and 17, Ronen has taught the method further comprising transferring said converted and processed service request from said generic gateway to an end service provider via a connector (Ronen figure 1 and column 5, line 43 – column 6, line 9 where the request is passed to the billing server (column 6, lines 10-13)).

28. Referring to claim 18, Ronen has taught an apparatus wherein said one of said plurality of adapters corresponds to said one of said plurality of connectors (Ronen figure 1 and column 5, line 43 – column 6, line 13 where each adapter is located within the transaction server 121 and corresponds to the connector between the transaction server and the billing server).

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29. Claims 13 and 19 do not recite limitations above the claimed invention set forth in claim 3 and are therefore rejected for the same reasons set forth in the rejection of claim 3 above.

30. Claims 1-13, 16-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Deisinger et al., U.S. Patent Number 6,397,220 B1 (herein Deisinger) in view of Sheard et al., U.S. Patent Number 6,453,356 (herein referred to as Sheard).

31. Referring to claim 1, Deisinger has taught a data processing system having a user terminal for entering a transaction request (Deisinger figure 1, client 36), wherein said transaction request has one of a plurality of formats (Deisinger figure 3, elements 236, 240, 244, 248, 252, 256, 260, 264), responsively coupled via a publicly available digital communication network to an enterprise server for responding to said transaction request using an enterprise protocol which is not one of said plurality of protocols (Deisinger figure 1, enterprise server 52).

32. Deisinger has not expressly disclosed a singular generic gateway through which a plurality of protocols can be converted. Sheard has taught a gateway that can both input and output a plurality of formats or protocols (Sheard abstract; figure 1; column 2, line 31 – column 3, line 29; and column 4, line 48 – column 6, line 34). At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to utilize Sheard's system within the system of Deisinger. One of ordinary skill in the art would have been motivated to do this in order to make the system of Deisinger more efficient by utilizing only one generic protocol gateway in the system rather than multiple separate gateways for each protocol in the system.

33. Referring to claim 2, Deisinger has taught the improvement further comprising a plurality of adapters interposed between said generic gateway and said user terminal which responsively

couples said user terminal to said generic gateway wherein each one of said plurality of adapters corresponds to said one of said plurality of protocols (Deisinger figure 2, element 229 where the user's request is adapted based on the type of service.).

34. Referring to claim 3, Deisinger has taught the improvement wherein said publicly available digital communication network further comprises the internet (Deisinger column 4, lines 42-43).

35. Referring to claims 4 and 9, Deisinger has taught the improvement further comprising an NT Server housing said generic gateway and providing a middleware environment (Deisinger figures 3 and 4 and column 6, lines 26-32).

36. Referring to claims 5, 10, and 20, Deisinger has taught the improvement wherein said user terminal further comprises an industry compatible personal computer operating under a commercially available operating system (Deisinger column 4, lines 40-46).

37. Claims 6-8 do not recite limitations above the claimed invention set forth in claims 1-3 and are therefore rejected for the same reasons set forth in the rejection of claims 1-3 above.

38. Claims 11 and 16 do not recite limitations above the claimed invention set forth in the combination of claims 1 and 2 and are therefore rejected for the same reasons set forth in the rejection of claims 1 and 2 above.

39. Referring to claims 12 and 17, Deisinger has taught the method further comprising transferring said converted and processed service request from said generic gateway to an end service provider via a connector (Deisinger figure 2 and column 5, lines 27-51 where the middleware adapts / converts / processes the requests and routes the it to the correct service provider via connections 225, 227, etc.).

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40. Claims 13 and 19 do not recite limitations above the claimed invention set forth in claim 3 and are therefore rejected for the same reasons set forth in the rejection of claim 3 above.

41. Referring to claim 18, Deisinger has taught an apparatus wherein said one of said plurality of adapters corresponds to said one of said plurality of connectors (Deisinger figure 2 where the adapters in element 229 correspond to the connector (225, 227, etc.) that will route to the service provider.).

Conclusion

42. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

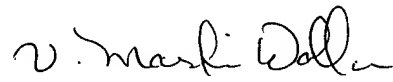
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Scott M. Collins whose telephone number is 571.272.3934. The examiner can normally be reached on Mon.-Fri. 8:00 am - 4:30 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Valencia Martin-Wallace can be reached on 571.272.6159. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

smc
February 17, 2005


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